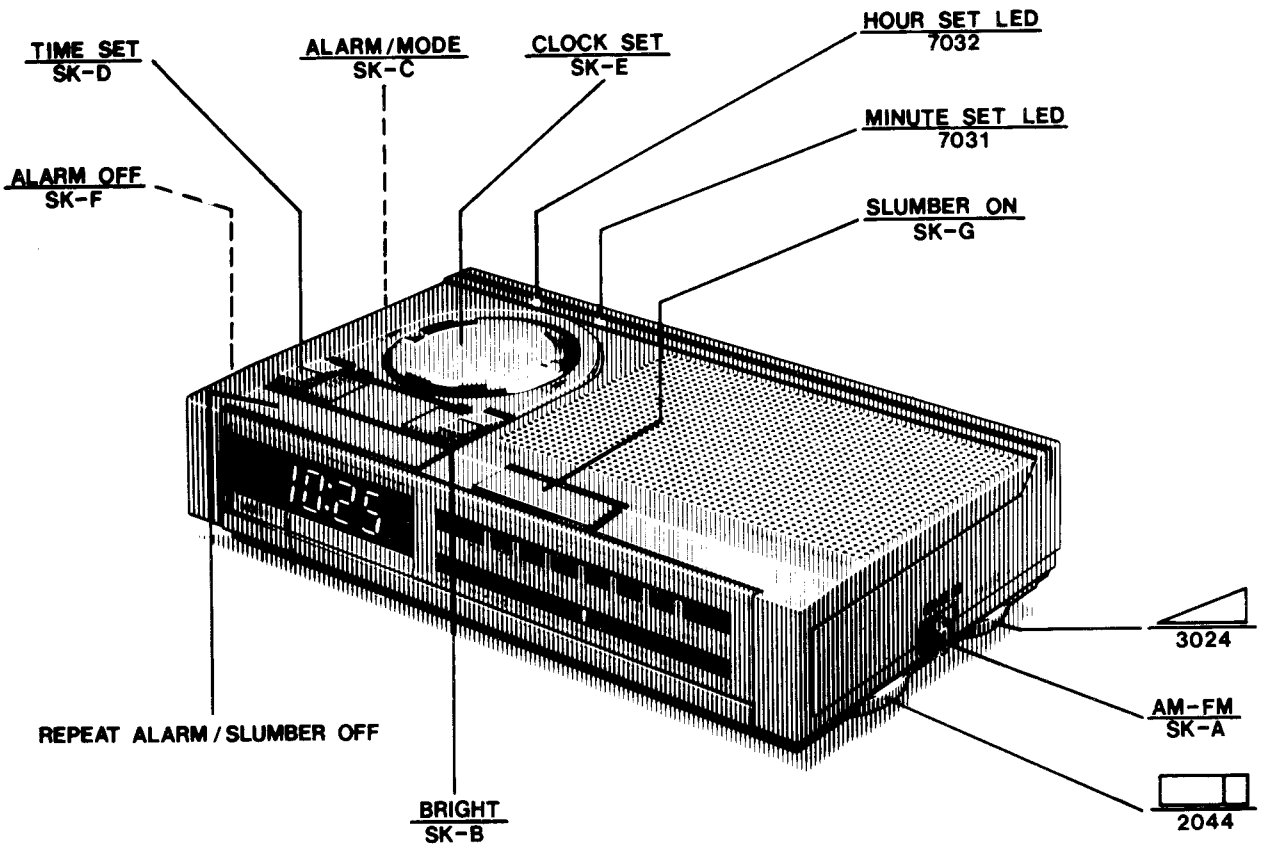
AP07

Clockradio D3090

/00/01/02/10/11/14

Service
Service
Service

Service Manual



Specifications

MW : 520-1605KHz (577-187m)
FM : 87.5-108MHz
IF-AM : 468KHz
455KHz (-/01/10/11/17)
IF-FM : 10.7MHz
Output : 200mW ±1dB (THD=10%)

Clock : 24hrs
12hrs (-/01/10/11/17)
Mains : 220V 50Hz
240V 50Hz (-/10)
120V 60Hz (-/17)
Battery : 9V DC

Documentation Technique Service Dokumentation Documentazione di Servizio Huolto-Ohje Manual de Servicio Manual de Serviço

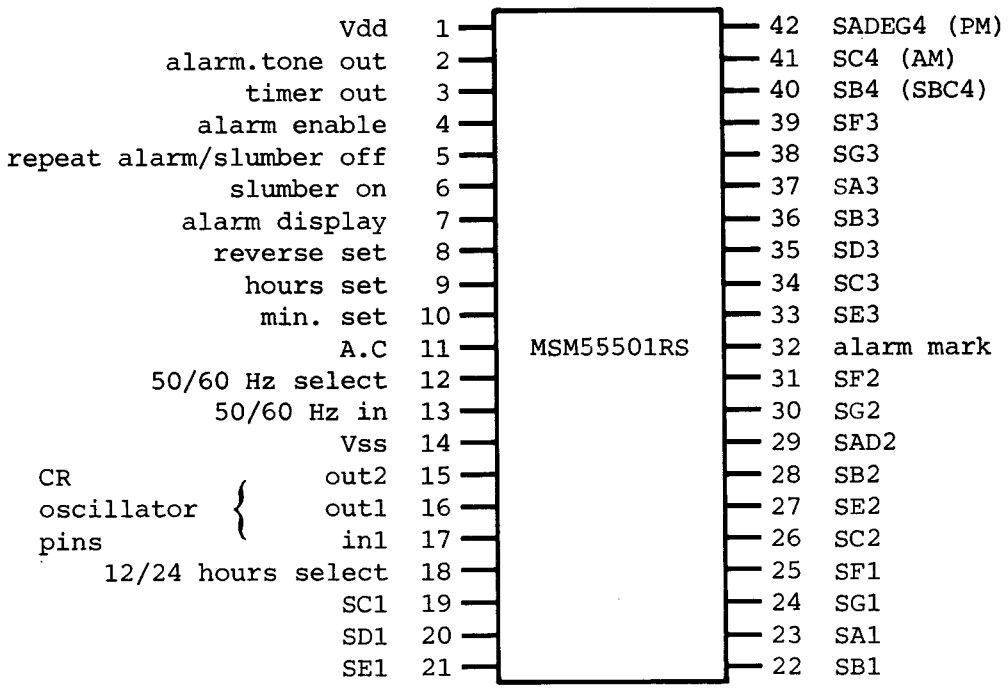
Subject to modification

4822 725 20147

Printed in The Netherlands

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne"

PHILIPS



SG3 means connect to the g segment of the 3rd digit (hrs).
SAD2 means connect to the a and d segments of the 2nd digit (10min.).
Functions in parentheses are used in the 12-hour system mode.

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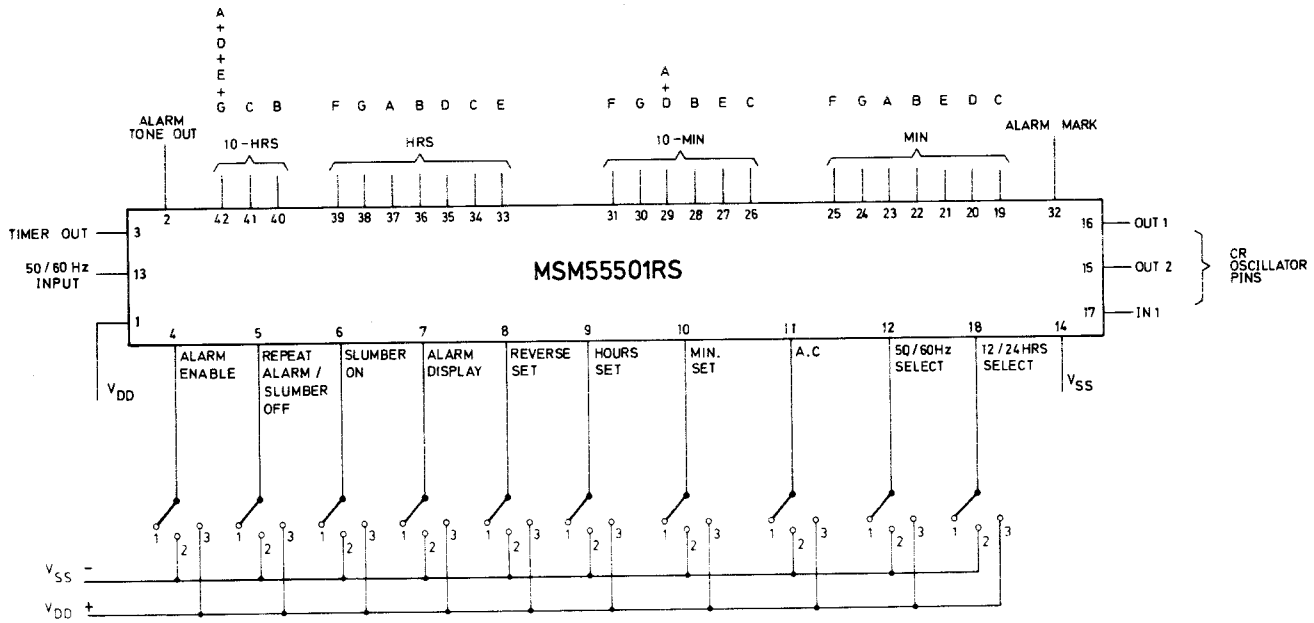

Pt	4	5	6	7	8	9	10	11	12	18
1	—	—	—	—	UP	INHIBIT	INHIBIT	—	60 Hz	12 HOURS
2	ALARM ON	—	—	REAL TIME	UP	INHIBIT	INHIBIT	RESET	60 Hz	60 Hz
3	ALARM OFF	REPEAT ALARM / SLUMBER OFF	SLUMBER ON	ALARM TIME	DOWN	HOUR SET	MINUTE SET	—	50 Hz	24 HOURS

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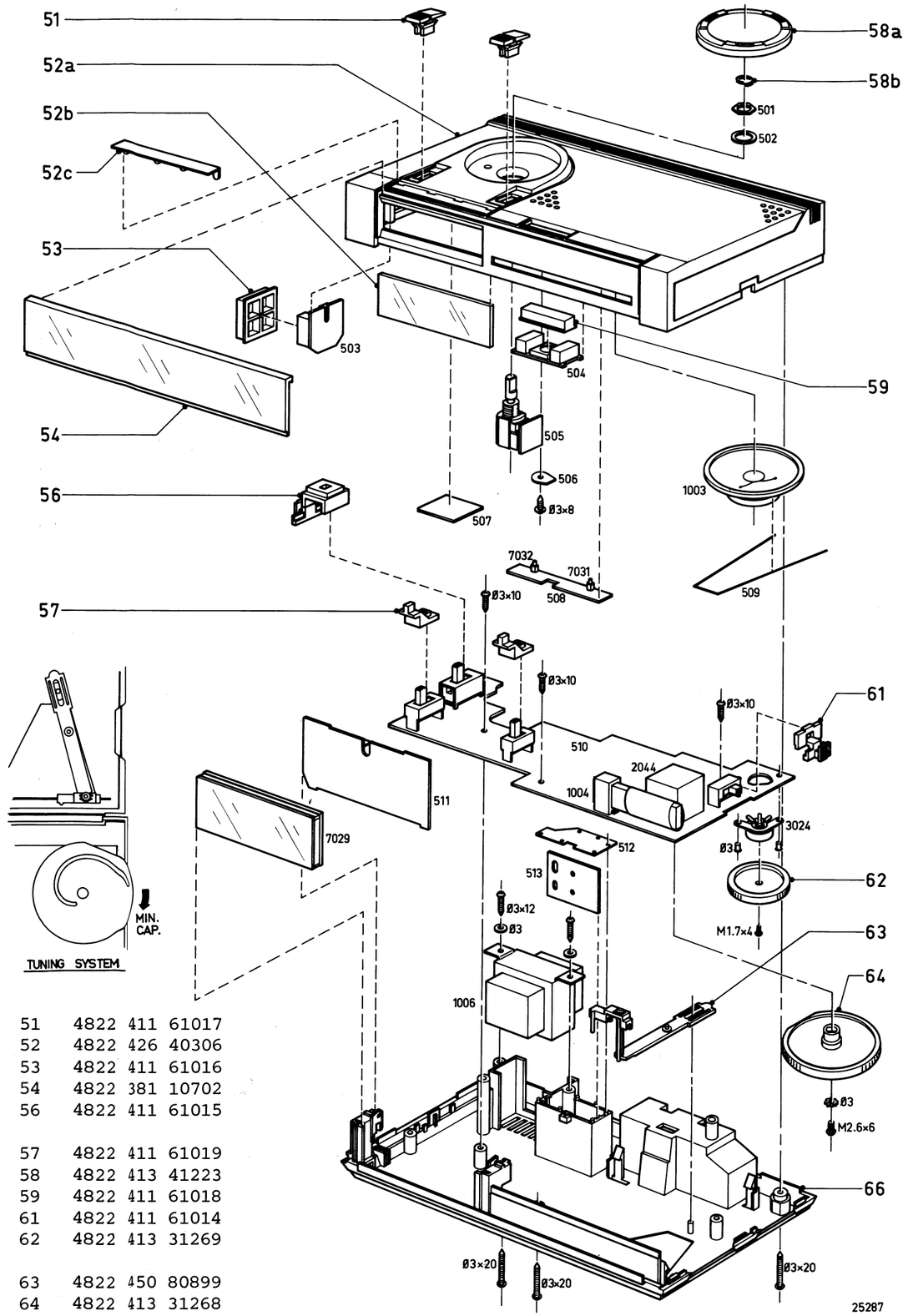
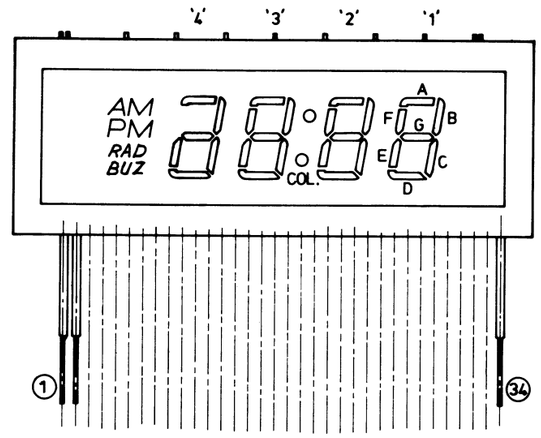


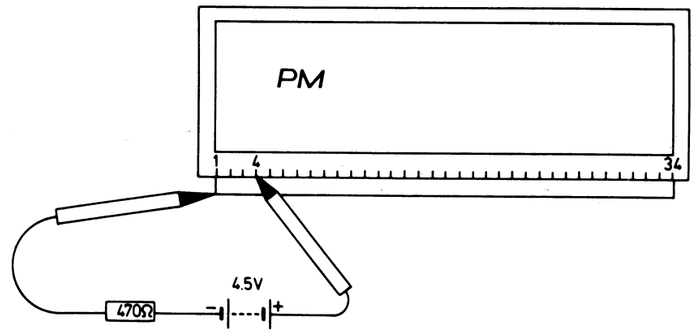
51	4822	411 61017
52	4822	426 40306
53	4822	411 61016
54	4822	381 10702
56	4822	411 61015
57	4822	411 61019
58	4822	413 41223
59	4822	411 61018
61	4822	411 61014
62	4822	413 31269
63	4822	450 80899
64	4822	413 31268
66	4822	435 60046

FTD Diagram



PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
CONNECTION	f	BUZ	RAD	PM	g	A4 D4 G4	E4	AM	B4	C4	F3	G3	A3	B3	D3	COL	g	C3	E3	F2	G2	A2 D2	B2	E2	C2	F1	G1	A1	NP	B1	E1	C1	D1	f

Check FTD-display



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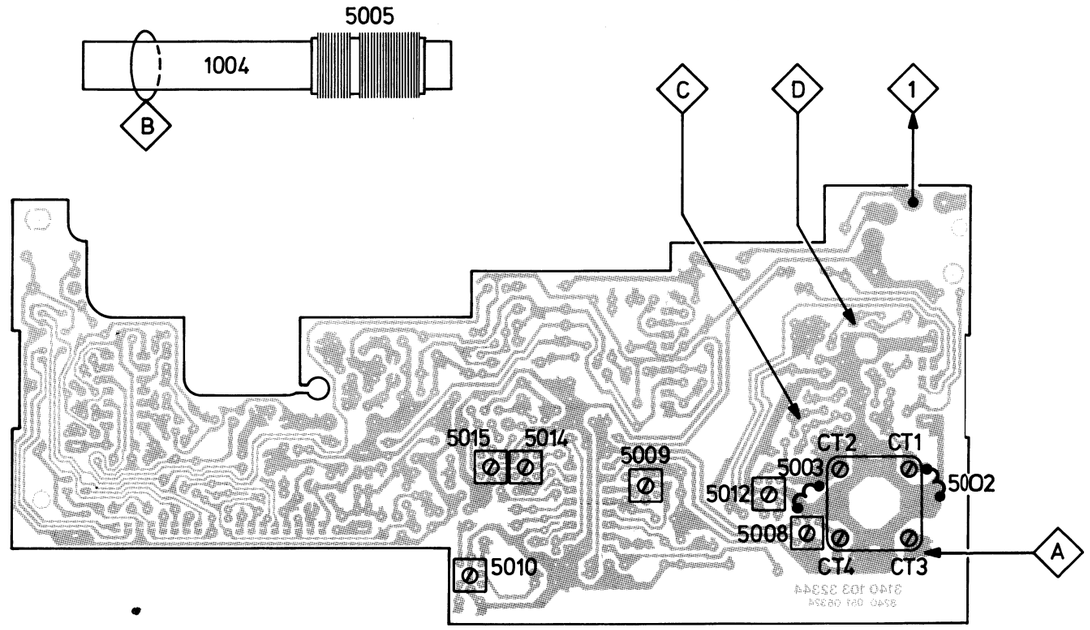
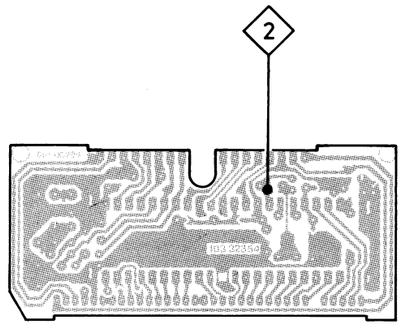
SK-A	⟶	◇	≠	⊓⊔	∠	◇		
AM-IF								
MW	468 KHz+ mod:1 KHz 30%	A via 10nF	min		5009 5010	↕ 1		max
AM-RF								
MW 520-1605 KHz	512 KHz mod:1 KHz 30%	B	max		5008	↕ 1		max
	1635 KHz mod:1 KHz 30%		min		CT4			
	550 KHz mod:1 KHz 30%		∠		5005			
	1500 KHz mod:1 KHz 30%				CT3			
FM-IF								
FM	≈10,7 MHz f=300 KHz (50 Hz)	C via 10nF	min		5012 5014 5015	↕ 1		max
					5015 5014	↕ 1	symmetrical	
FM-RF								
FM 87,5-108 MHz AFC off	86,5 MHz mod:1 KHz f=22,5 KHz	D	max		5003	↕ 1		max
	109 MHz mod:1 KHz f=22,5 KHz		min		CT2			
	88 MHz mod:1 KHz f=22,5 KHz		∠		5002			
	106 MHz mod:1 KHz f=22,5 KHz				CT1			
CL0CK FREQUENCY								
AC=0V,DC=9V					2081	◇ 2	f◇2 = 32.7 KHz ±200 Hz	

↕ Repeat

\+ for -/01/10/11/17 IF=455 KHz





-C-		
2044	polyvaricor	4822 125 30027
2055	N1000 10±0.5pF	4822 122 31054
2081	trimmer 11pF	4822 125 50198
-IC-		
7008	TEA5570	4822 209 81563
7009	TA7313AP	4822 209 80411
7026	MSM55501RS	4822 209 81966
7027	HEF4069UBP	4822 209 10185
-TS-		
7001	1502B	4822 130 40947
7002	1502C	4822 130 44195
7016,7023	1402D	4822 130 40937
7017	1802M	4822 130 44104
7018,7025	1602D	4822 130 41434
7024	1402E	4822 130 44196
-L-		
5003	FM osc coil	4822 157 51535
5004	trap	4822 153 10341
5005	MW	4822 156 10732
5008	AM osc coil	4822 153 10299
5009,5010	AM IFT	4822 153 10338
5012	FM IFT	4822 153 50211
5013	filter 10.7MHz	4822 242 70249
5014	ratio det.pri.	4822 156 40857
5015	ratio det.sec.	4822 156 21227

-R-		
3024	VR 16MM 10KA	4822 101 30504
-D-		
7004	1K60	4822 130 31232
7005÷7007	2-1K60	4822 130 31232
7011÷7015	1N4001	4822 130 31438
7019	BZX79-C5V6	4822 130 34173
7020	BZX79-C6V2	4822 130 34167
7021,7022 7036÷7044 7046	BA317	4822 130 30847
7031,7032	TLR226	4822 130 31516
-MISCELLANEOUS-		
SK-A	bandswitch 2P2T	4822 277 20696
SK-B	switch MBC 2P2T	4822 277 20915
SK-C	switch mode 2P4T	4822 277 20781
SK-D	sw.time set 2P3T	4822 277 20903
SK-E	switch rotary	4822 273 10131
SK-F	switch alarm off	4822 277 20914
SK-G	sw.slumber on	4822 276 10799
1003	spkr.57mm,8ohm	4822 240 30215
1004	ferrite bar	4822 526 10176
1006	trans. EI-35	4822 145 30262
7029	display FTD	4822 130 90099

(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.